

Method and Apparatus for Scalable Handling of Non-Tree  
Structures In Parser Tree Reconstruction

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ABSTRACT OF THE DISCLOSURE

10 A linear node includes a begin option node that  
has a direct link to an end option node. The begin  
option node has a single entry, and also includes a  
list of links with each entry in the list being a link  
to one of a plurality of parallel branches. Each of  
the plurality of branches represents one possible value  
of a command element of the configuration command.  
15 Each branch is connected back to the begin option node  
through a next option node. During parsing of a  
command, each command element is represented by a  
different linear node. Also, during parsing of the  
command, a linear command regeneration template is  
20 generated that includes a begin option node template, a  
next option node template, and an end option node  
template. The linear command regeneration template is  
used to recreate the original command using data in a  
system configuration database.

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